

The land based seismic-gravimetric complex creation and exploitation specialties

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Abstract. Development of the seismic-gravimetric complex and continuous operation of it in an automatic regime during several years allowed us to register seismometers and gravimeters test masses stirring synchronal in different frequency bands. These frequencies “overlap” lays within decimals Hertz. The seismic-gravimetric complex contains two relative gravimeters CG-5, one absolute gravimeter A10, one ternary seismic station “Ugra”, one automatic meteorological station and a two-frequencies GPS receiver. As base devices, the relative gravimeters are used. For these devices the gravimeter scale “zero” displacement account problem was solved. For the long time regime observations by the seismic-gravimetric complex, a gravimetric observatory was built in an area with a low level technogenic noises. As a result of the preliminary geophysical observations, we can state that the informative parameter is a root-mean square deviation of the measured gravity values.

Keywords: seismic-gravimetric, relative and absolute gravimeters, gravimetric observatory, long time regime geophysical observations.